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**ABSTRACT**

A dental handpiece comprises a handpiece body with a head mounting seat, with a gas feeding channel and with a first light guide having an outlet in the seat, wherewith the seat is adapted to provide a full turn of the head, a head with a turbine with means for mounting a dental instrument positioned therein, with an gas feeding aperture to the turbine and with a second light guide having an inlet to a part of the head positioned in the seat of the body, a micromotor having an inlet for feeding gas and a drive shaft for ensuring mechanical drive action. An intermediate gas feeding channel is made on the inner surface of the head mounting seat or on the outer surface of a part of the head positioned inside the seat to connect the gas feeding channel to an gas feeding aperture to the turbine with any position of the head when it is turned. The outlet of the first light guide and the inlet of the second light guide are positioned opposite each other with the head in any position during a turn thereof. The drive shaft of the micromotor is connected to the head, and the inlet for feeding gas to the micromotor is connected to the gas feeding channel in the body.